

Oleochemical Manufacture and Applications

Frank Gunstone Richard J. Hamilton

Oleochemical Manufacture And Applications

Michael Hoelscher



Oleochemical Manufacture And Applications:

Oleochemical Manufacture and Applications F. D. Gunstone, Richard John Hamilton, 2001 *Oleochemical Manufacture and Applications* presents an overview of oleochemicals at the research and professional levels with an emphasis on industrial production and applications Approximately half of the chapters consider general matters while the other half deal with applications Authors are drawn from industrial and academic laboratories around the world The book is an invaluable reference for chemists and technologists working on the production and use of oleochemicals analytical chemists quality assurance personnel and lipid chemists in academic research laboratories

Surfactants from Renewable Resources Mikael Kjellin, Ingegärd Johansson, 2010-01-26 Most modern surfactants are readily biodegradable and exhibit low toxicity in the aquatic environment the two criteria for green surfactants However the majority are synthesised from petroleum so over the past decade the detergent industry has turned its attention to developing greener routes to create these surfactants via renewable building blocks *Surfactants from Renewable Resources* presents the latest research and commercial applications in the emerging field of sustainable surfactant chemistry with emphasis on production technology surface chemical properties biodegradability ecotoxicity market trends economic viability and life cycle analysis Reviewing traditional sources for renewable surfactants as well as recent advances this text focuses on techniques with potential for large scale application Topics covered include Renewable hydrophobes from natural fatty acids and forest industry by products Renewable hydrophiles from carbohydrates amino acids and lactic acid New ways of making renewable building blocks ethylene from renewable resources and complex mixtures from waste biomass Biosurfactants Surface active polymers This book is a valuable resource for industrial researchers in companies that produce and use surfactants as well as academic researchers in surface and polymer chemistry sustainable chemistry and chemical engineering

Microbial Enzymes: Roles and Applications in Industries Naveen Kumar Arora, Jitendra Mishra, Vaibhav Mishra, 2020-04-28 *Microbial Enzymes Roles and applications in industry* offers an essential update on the field of microbial biotechnology and presents the latest information on a range of microbial enzymes such as fructosyltransferase laccases amylases lipase and cholesterol oxidase as well as their potential applications in various industries Production and optimisation technologies for several industrially relevant microbial enzymes are also addressed In recent years genetic engineering has opened up new possibilities for redesigning microbial enzymes that are useful in multiple industries an aspect that the book explores In addition it demonstrates how some of the emerging issues in the fields of agriculture environment and human health can be resolved with the aid of green technologies based on microbial enzymes The topics covered here will not only provide a better understanding of the commercial applications of microbial enzymes but also outline futuristic approaches to use microbial enzymes as driver of industrial sustainability Lastly the book is intended to provide readers with an overview of recent applications of microbial enzymes in various industrial sectors and to pique researchers interest in the development of novel microbial enzyme

technologies to meet the changing needs of industry Handbook of Biofuels Production Rafael Luque,James Clark,2010-11-25 In response to the global increase in the use of biofuels as substitute transportation fuels advanced chemical biochemical and thermochemical biofuels production routes are fast being developed Research and development in this field is aimed at improving the quality and environmental impact of biofuels production as well as the overall efficiency and output of biofuels production plants The range of biofuels has also increased to supplement bioethanol and biodiesel production with market developments leading to the increased production and utilisation of such biofuels as biosyngas biohydrogen and biobutanol among others Handbook of biofuels production provides a comprehensive and systematic reference on the range of biomass conversion processes and technology Part one reviews the key issues in the biofuels production chain including feedstocks sustainability assessment and policy development Part two reviews chemical and biochemical conversion and in turn Part three reviews thermal and thermo chemical conversion with both sections detailing the wide range of processes and technologies applicable to the production of first second and third generation biofuels Finally Part four reviews developments in the integration of biofuels production including biorefineries and by product valorisation as well as the utilisation of biofuels in diesel engines With its distinguished international team of contributors Handbook of biofuels production is a standard reference for biofuels production engineers industrial chemists and biochemists plant scientists academics and researchers in this area A comprehensive and systematic reference on the range of biomass conversion processes and technologies Addresses the key issues in the biofuels production chain including feedstocks sustainability assessment and policy development Reviews chemical and bio chemical conversion techniques as well as thermal and thermo chemical conversion detailing the range of processes and technologies applicable to biofuels production **Industrial Applications of Biopolymers and their Environmental Impact** Abdullah Al Mamun,Jonathan Y. Chen,2020-11-23 Biopolymers represent a carbon emission solution they are green and eco friendly with a variety of uses in biomedical engineering the automotive industry the packaging and paper industries and for the development of new building materials This book describes the various raw materials of biopolymers and their chemical and physical properties the polymerization process and the chemical structure and properties of biopolymers Furthermore this book identifies the drawbacks of biopolymers and how to overcome them through modification methods to enhance the compatibility flexibility physicochemical properties thermal stability impact response and rigidity Advances in Chemical Engineering Zeeshan Nawaz,Shahid Naveed,2012-03-23 Chemical engineering applications have been a source of challenging optimization problems in terms of economics and technology The goal of this book is to enable the reader to get instant information on fundamentals and advancements in chemical engineering This book addresses ongoing evolutions of chemical engineering and provides overview to the state of the art advancements Molecular perspective is increasingly important in the refinement of kinetic and thermodynamic modeling As a result much of the material was revised on industrial problems and their

sophisticated solutions from known scientists around the world These issues were divided in to two sections fundamental advances and catalysis and reaction engineering A distinct feature of this text continues to be the emphasis on molecular chemistry reaction engineering and modeling to achieve rational and robust industrial design Our perspective is that this background must be made available to undergraduate graduate and professionals in an integrated manner Food and Industrial Bioproducts and Bioprocessing Nurhan Turgut Dunford,2012-05-01 Food and Industrial Bioproducts and Bioprocessing describes the engineering aspects of bioprocessing including advanced food processing techniques and bioproduct development The main focus of the book is on food applications while numerous industrial applications are highlighted as well The editors and authors all experts in various bioprocessing fields cover the latest developments in the industry and provide perspective on new and potential products and processes Challenges and opportunities facing the bioproduct manufacturing industry are also discussed Coverage is far reaching and includes current and future biomass sources and bioprocesses oilseed processing and refining starch and protein processing non thermal food processing fermentation extraction techniques enzymatic conversions nanotechnology microencapsulation and emulsion techniques bioproducts from fungi and algae biopolymers and biodegradable edible packaging Researchers and product developers in food science agriculture engineering bioprocessing and bioproduct development will find Food and Industrial Bioproducts and Bioprocessing an invaluable resource The Chemistry of Oils and Fats Frank Gunstone,2009-02-12 The three major macronutrients are proteins carbohydrates and lipids oils and fats This book is devoted to lipids which are an important part of life for all of us What are these materials in molecular terms Where do they come from What happens to them between the harvesting of crops and the appearance of the oils and fats in different products in the supermarket How does nature produce these molecules and can we act on nature to modify the materials to increase their beneficial properties How important are the minor products present in the fats that we consume Since oils and fats vary how can we analyse them What are their physical chemical and nutritional properties How do the fats that we consume affect our health and well being in both quantitative and qualitative terms What are their major food and non food uses This book provides a broad source of reference on oils and fats chemistry for graduates entering the food and oleochemical industries postgraduate researchers and nutritionists It offers a point of entry to the detailed literature **The Lipid Handbook with CD-ROM** Frank D. Gunstone, John L. Harwood,2007-03-13 Extensively revised reorganized and expanded the third edition of the industry standard The Lipid Handbook reflects many of the changes in lipid science and technology that have occurred in the last decade It places a stronger emphasis on the nutritional medical and agricultural aspects of lipids to reflect the increased interest and research in these areas in the past 10 years and beyond This edition features updated chapters and expanded coverage including additional compounds to its dictionary Written by experts from a diverse range of fields many of whom have contributed new research in the areas under review this handbook remains an essential reference **Kent and**

Riegel's Handbook of Industrial Chemistry and Biotechnology James A. Kent, 2010-05-27 Substantially revising and updating the classic reference in the field this handbook offers a valuable overview and myriad details on current chemical processes products and practices No other source offers as much data on the chemistry engineering economics and infrastructure of the industry The Handbook serves a spectrum of individuals from those who are directly involved in the chemical industry to others in related industries and activities It provides not only the underlying science and technology for important industry sectors 30 of the book's 38 chapters but also broad coverage of critical supporting topics Industrial processes and products can be much enhanced through observing the tenets and applying the methodologies found in new chapters on Green Engineering and Chemistry Practical Catalysis and Environmental Measurements as well as expanded treatment of Safety and Emergency Preparedness Understanding these factors allows them to be part of the total process and helps achieve optimum results in for example process development review and modification Other new chapters include Nanotechnology Environmental Considerations in Facilities Planning Biomass Utilization Industrial Microbial Fermentation Enzymes and Biocatalysis the Nuclear Industry and History of the Chemical Industry **Advanced Oil Crop Biorefineries**

Abbas Kazmi, 2012 This book explains how the use of whole plants and byproducts can maximize efficiency in the European oil crop supply chain **Enzymatic Reactions in Organic Media** A. Koskinen, A. Klivanov, 2012-12-06 The outlook of organic synthesis has changed many times during its tractable history The initial focus on the synthesis of substances typical of living matter exemplified by the first examples of organic chemistry through the synthesis of urea from inorganic substances by Liebig was accepted as the birth of organic chemistry and thus also of organic synthesis Although the early developments in organic synthesis closely followed the pursuit of molecules typical in nature towards the end of the 19th century societal pressures placed higher demands on chemical methods appropriate for the emerging age of industrialization This led to vast amounts of information being generated through the discovery of synthetic reactions spectroscopic techniques and reaction mechanisms The basic organic functional group transformations were discovered and improved during the early part of this century Reaction mechanisms were elucidated at a growing pace and extremely powerful spectroscopic tools such as infrared nuclear magnetic resonance and mass spectrometry were introduced as everyday tools for a practising organic chemist By the 1950s many practitioners were ready to agree that almost every molecule could be synthesized Some difficult stereochemical problems were exceptions for example Woodward concluded that erythromycin was a hopelessly complex target This frustration led to a hectic phase of development of new and increasingly more ingenious protecting group strategies and functional group transformations and also saw the emergence of asymmetric synthesis *Waste Biorefineries: Future Energy, Green Products and Waste Treatment* Mohammad Rehan, Abdul-Sattar Nizami, Umer Rashid, Muhammad Raza Naqvi, 2019-09-24 Energy recovery from waste resources holds a significant role in the sustainable waste management hierarchy to support the concept of circular economies and to mitigate the challenges of

waste originated problems of sanitation environment and public health Today waste disposal to landfills is the most widely used methodology particularly in developing countries because of limited budgets and lack of efficient infrastructure and facilities to maintain efficient and practical global standards As a consequence the dump sites or non sanitary landfills have become the significant sources of greenhouse gases emissions soil and water contamination unpleasant odors leachate and disease spreading vectors flies and rodents However waste can be utilized to produce a range of potential products such as energy fuels and value added products under waste biorefineries A holistic and quantitative view such as waste biorefinery on waste management must be linked to the actual country taking into account its socio economic situation local waste sources and composition as well as the available markets for the recovered energy and products Therefore it is critical to understand that solutions cannot be just copied from one region to the others In fact all waste handling transportation and treatment can represent a burden to the cities environment and macro and micro economics except for the benefits obtained from recovered materials and energy Equally significant is a clear and quantitative understanding of the industrial and public potential of utilizing recovered materials and energy in the markets as these can be reached without exacerbating the environmental issues using excessive transport The book explores new advancements and discoveries on the development of emerging waste to energy technologies practical implementation and lessons learned from sustainable wastemanagement practices under waste biorefinery concept which will accelerate the growth of circular economies in the world The articles presented in this book have been written by expert researchers and academics working in institutions at different countries across the world including Germany Greece Japan South Korea China Saudi Arabia Pakistan Indonesia Malaysia Iran and India The research articles have been arranged into three main subject categories 1 Resource recovery from waste 2 Waste to energy technologies and 3 Waste biorefineries This book will serve as an important resource for research students academics industry policy makers and government agencies working in the field of integrated waste management energy and resource recovery waste to energy technologies waste biorefineries etc The editorial team of this book is very grateful to all the authors for their excellent contributions and making the book successful

Nutraceutical and Specialty Lipids and their Co-Products

Fereidoon Shahidi, 2006-03-14 While certain saturated and trans fats continue to face scrutiny as health hazards new evidence indicates that in addition to supplying foods with flavor and texture fats also provide us with dietary components that are absolutely critical to our well being The importance of essential fatty acids and fat soluble vitamins and other minor

Biolubricants Jan C.J. Bart, Emanuele Gucciardi, Stefano Cavallaro, 2012-12-18 Lubricants are essential in engineering however more sustainable formulations are needed to avoid adverse effects on the ecosystem Bio based lubricant formulations present a promising solution Biolubricants Science and technology is a comprehensive interdisciplinary and timely review of this important subject Initial chapters address the principles of lubrication before systematically reviewing fossil and bio based feedstock resources for biodegradable lubricants Further chapters describe

catalytic bio chemical functionalisation processes for transformation of feedstocks into commercial products product development relevant legislation life cycle assessment major product groups and specific performance criteria in all major applications Final chapters consider markets for biolubricants issues to consider when selecting and using a lubricant lubricant disposal and future trends With its distinguished authors Biolubricants Science and technology is a comprehensive reference for an industrial audience of oil formulators and lubrication engineers as well as researchers and academics with an interest in the subject It provides an essential overview of scientific and technological developments enabling the cost effective improvement of biolubricants something that is crucial for the green future of the lubricant industry A comprehensive interdisciplinary and timely review of bio based lubricant formulations Addresses the principles of lubrication Reviews fossil and bio based feedstock resources for biodegradable lubricants

Bailey's Industrial Oil and Fat Products, Industrial and Nonedible Products from Oils and Fats Fereidoon Shahidi,2005-04-08 Bailey s Industrial Oil and Fat Products Industrial and Nonedible Products from Oils and Fats Intensification of Biobased Processes Andrzej Gorak,Andrzej Stankiewicz,2018-06-18 The first book dedicated entirely to this area Intensification of Biobased Processes provides a comprehensive overview of modern process intensification technologies used in bioprocessing History of Industrial Uses of Soybeans (Nonfood, Nonfeed) (660 CE-2017) William Shurtleff; Akiko Aoyagi,2017-12-03 The world s most comprehensive well documented and well illustrated book on this subject With extensive subject and geographical index 145 photographs and illustrations mostly color Free of charge in digital PDF format on Google Books

Recent Advancement in White Biotechnology Through Fungi Ajar Nath Yadav,Shashank Mishra,Sangram Singh,Arti Gupta,2019-03-08 White biotechnology or industrial biotechnology as it is also known refers to the use of living cells and or their enzymes to create industrial products that are more easily degradable require less energy create less waste during production and sometimes perform better than products created using traditional chemical processes Over the last decade considerable progress has been made in white biotechnology research and further major scientific and technological breakthroughs are expected in the future Fungi are ubiquitous in nature and have been sorted out from different habitats including extreme environments high temperature low temperature salinity and pH and may be associated with plants epiphytic endophytic and rhizospheric The fungal strains are beneficial as well as harmful for human beings The beneficial fungal strains may play important roles in the agricultural industrial and medical sectors The fungal strains and their products enzymes bioactive compounds and secondary metabolites are very useful for industry e g the discovery of penicillin from *Penicillium chrysogenum* This discovery was a milestone in the development of white biotechnology as the industrial production of penicillin and antibiotics using fungi moved industrial biotechnology into the modern era transforming it into a global industrial technology Since then white biotechnology has steadily developed and now plays a key role in several industrial sectors providing both high value nutraceutical and pharmaceutical products The fungal strains and bioactive compounds also play an important role in

environmental cleaning This volume covers the latest developments and research in white biotechnology with a focus on diversity and enzymes

Kirk-Othmer Chemical Technology of Cosmetics Kirk-Othmer, 2012-11-27 Educating professionals and students about the chemistry formulation technology and related regulatory aspects of cosmetics and perfume Cosmetics and perfume comprise a multibillion dollar global industry Kirk Othmer Chemical Technology of Cosmetics provides authoritative information on the substances and processes involved including key product groups ingredients formulation technology packaging and regulatory topics in twenty two articles This resource makes sense of a vast group of consumer products designed to improve the health cleanliness and physical appearance of the human exterior It identifies natural and synthetic ingredients and gives details on formulation of the product so that the cosmetic is safe easy to use and performs as described Particular attention is paid to the technologies that have been developed to produce them including emulsification stick technology powder blending and aerosol technology Packaging is also addressed as it must be attractive to the consumer be environmentally friendly and keep the product safe as well Regulatory information reinforces the safety aspect Based on Wiley s renowned Kirk Othmer Encyclopedia of Chemical Technology this book presents new and carefully updated articles and features the same breadth and quality of coverage and clarity of presentation found in the original This comprehensive guide is a valuable resource for chemists R D professionals dermatologists patent attorneys regulatory agencies and other professionals in the field of personal care products It is also a must have reference for students who plan to enter the field

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Oleochemical Manufacture And Applications Introduction

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